

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : NIPPON ESTER CO LTD

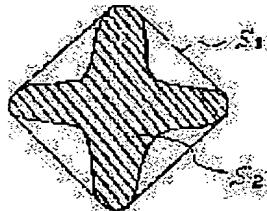
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(54) POLYETHER ESTER-BASED ELASTIC YARN

(57)Abstract:

PURPOSE: To obtain the subject yarn having plural protrusions with not thick tips in a cross section, excellent elasticity recovery and combining properties, comprising polyethylene terephthalate, etc., as a hard segment and a straight- chain polyalkylene glycol as a soft segment.



CONSTITUTION: Dimethyl terephthalate is esterified with ethylene glycol or 1,4-butanediol and is subjected to polycondensation with a polyalkylene glycol to give a polyether ester comprising a polyester composed of polyethylene terephthalate or polybutylene terephthalate as a hard segment and a straight- chain polyalkylene glycol as a soft segment. The polyether ester is spun from spinning holes having protrusions not enlarging toward tips and drawn to give the objective elastic yarn having 3-5 protrusions not enlarging toward tips and a ratio of deformation $M=S1/S2$ ($S1$ is area of part enclosed by lines connecting tips of protrusions; $S2$ is cross-sectional area) of ≥ 1.5 .

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